Daily Lesson Plan

Previous Known Knowledge/Pre-Assessment

I will be assessing previous known knowledge by formulating a student focused discussion at the beginning and end of class. Before I assign any assignment related to this material. I will also be assessing their knowledge of the material. The class will not be graded on their poster assignment it will be for completion points.

Topic: Cell Division **Course:** Biology Grade Level: 9th Date: March 27, 2015

Teacher/Student Guide

I will be lecturing the students with the aid of a PowerPoint. The students will be taking notes in preparation for the unit exam over the characteristics of mitosis and binary fission. I will also be expecting students to understand and describe each stage of mitosis. They will be identifying the mitosis cycle and the difference between that and binary fission. Students should also have a brief understanding of evolution and mutations and when/how they occur.

Standards Addressed

LS1-B Growth and development of organisms.

Overview

By the end of this lesson, the students will be able to distinguish between binary fission and mitosis. Students should also be able to accurately term what both of these are and they should be able to define general characteristics of each sub topic. Students will be making posters and using a jigsaw technique to learn and teach one another about a phase of mitosis. By the end of this lesson students should fully understand each phase of mitosis.

Outcomes-Methods

Students will be able to compare and contrast between binary fission and mitosis. They will also be able to identify and accurately describe the stages of cell division. They will also understand mutations and how variation is created. The goal is that students become very efficient in these subjects. If this is the case they will be able to excel on the presentation and on their mitosis posters. If the students come back with a high fail rate I will look at my method and consider student feedback and more in class practice. Students will then be able to not only remember but learn new important facts about cell division. The mitosis poster and presentation will be a completion assignment.

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Instruction (Notes, Review, Participation)

I will be assessing knowledge known by students through the jigsaw technique. Students will be performing there own research, creating a poster and then teaching each other what each phase of mitosis is. The comparison phases will be completed before I go through the power point and presentation. I will be assessing the students’ knowledge of mitosis, binary fission, mutation and evolution. After the assessment, I will be discussing the topic and what I expect the students to learn for this chapter. I will be giving the students a few introductory questions about cell division and its importance. The students will prepare their poster that will assist them in studying for the chapter test and teaching each other. The students will be expected to present their finalized posters for completion points.

Accommodations (Homework, parents, athletics)

Students with an IEP that have troubles reading will be required to look for photos as well as the videos to assist with their understanding of mitosis and binary fission. The students who have problems reading will still be required to complete the poster to the best of their abilities. Students with an IEP will also be able to complete the assignment during our question and answer period at the beginning of class the next day.

# Daily Lesson Plan Cont.

Reflection

I will be providing a reflection on the knowledge gained during and after the lesson was completed. I will be talking about what went right, what problems I encountered and what I will adjust if I had the opportunity to reteach the lesson again.

Duration

I will record the amount of time needed to complete this lesson in this area.

Teaching input modeling and understanding.

I will provide the information that the students need to gain knowledge of the skill lecture, video and pictures. I will be providing examples of what is expected for the end product of work. I will then be checking for understanding at the end to make sure students “got it” before moving on. If the skill is not understood I will plan to reteach the concept/skill.

Anticipatory Set

I am going to gain the students attention through a question and answer discussion with the class about previous known knowledge. The goal is to focus student attention on the lesson and to create an organizing framework of ideas and to gain a better understanding of the students known knowledge. I will gain their attention by grouping the students using a jigsaw technique.